

THE IMPACT OF COMPUTER INFORMATION SYSTEMS ON THE ADEQUACY OF INSTITUTIONAL WORK (CASE STUDY)

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ABSTRACT

In the light of the greatest development in the field of information systems and modern technology, information has become of particular importance to various institutions and companies. The current study aimed to Determine the impact of computer information systems on the adequacy of institutional work, Definition of computer information system, Highlights the activities of the computer information system in institutional work, Highlights the challenges of applying the computer information system in the institution, and to Identify the availability of equipment and tools for the application of computer information systems to institution. To achieve these objectives will be used descriptive analytical method by examining the previous studies and literature and analyzing the results. The results are expected to show that the information system is an organized mechanism and procedure that allows collection, classification and sorting Data. Then processed and converted to information, to be retrieved when needed. The use of computer information systems in enterprises is expected to contribute to the efficiency of institutions, improve decision making, reduce cost, and reduce process time in services.

KEYWORDS: Computer Information System, Institutional Work, Efficiency & Decision Making

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INTRODUCTION

To increase the efficiency and effectiveness of the decision making process in order to counter the ups and downs of the market is being the aim of the institutions these days. (Karim, 2011) A great many financial organizations depended during the last decade almost heavily on computer information systems in order to provide easily their services and it is expected that this dependence will continue to grow to keep pace with the advancement of modern technology.

Since the information system is a mechanism that allows the collection, classification, processing and retrieval of information stored in files manually or mechanically previously and currently electronic, In addition to the building and production of new information from the previous information already existing in the system after processing. Given the facilities provided by the computer that cannot be bypassed in contemporary information systems, so serious thinking about building a computerized information system has become necessary. (Al-Mamary and Shamauddin, 2014)

Many institutions and companies seek to implement Computer Information System on their operational requirements because of their multiple benefits in raising the quality and efficiency of institutional work. Information System (IS) is a set of components, including infrastructure, application and data systems, which can increase competitiveness, gather information and make better decisions for institutional success. (Mehman Navaz,

2013)

Under globalization, the world is undergoing a profound and rapid development at the economic, political, social and technological fields. As a result of the depth of this development and its speed in the field of information technology, information and information technologies have become the primary material of any human activity, find most of the developed countries compete with each other to develop strategies and plans for the development of information technology. (Dahlman, 2007)

Now, the Computers hardware and software has become an indispensable necessity for all the institutions, for its powerful advantage in the processing and storage of a large amount of information, in a systematic, fast and accurate, in addition to the development of communication devices and satellites, It became possible to access information from its sources when needed with the least time and effort.(Reyolds & Stair, 2012)

PROBLEMS OF STUDY

In the midst of changes at the local and international levels and the new challenges posed by the environment as a result of the phenomenon of globalization, which consists mainly of the remarkable transition from material economies to knowledge-based economies and the increasing use of information systems. (Qrunfleh, 2010) Information has become an inseparable part of the management fabric of the organization and a key element in activating the administrative process and strengthening decisions, As well as the management of human resources and the introduction of new products and improves the quality of performance, Modern institutions have become dependent on rapidly changing information at all stages. Computer information systems affect the adequacy of institutional work by shortening time, reducing costs, raising product quantities, and doubling the level of product quality.(Yassine, 2017) Therefore, the current research will be prepared and designed to identify the impact of computer information systems on the adequacy of institutional work.

QUESTION OF STUDY

The current study was prepared to identify the impact of computer information systems on the adequacy of institutional work and to answer the following main question.

- What is the impact of computer information systems on the adequacy of institutional work?

The Current Study will Answer a Set of Sub-Questions as Follows

- What is the computer information system?
- What are the activities of the computer information system in institution work?
- What are the challenges of applying the computer information system in the institution?
- What extent equipment and tools are available for the application of computer information systems in the institution?

OBJECTIVES OF STUDY

The current study comes to achieve the following objectives.

- Determine the impact of computer information systems on the adequacy of institutional work.

- Definition of computer information system.
- Highlights the activities of the computer information system in institutional work.
- Highlights the challenges of applying the computer information system in the institution.
- Identify the availability of equipment and tools for the application of computer information systems to the institution.

METHODOLOGY OF STUDY

To achieve the objectives of the current study, which aims to identify the impact of computer information systems on the adequacy of institutional work and Highlight the challenges of applying the computer information system in the institution and to answer the questions will be used descriptive analytical method by examining the previous studies and literature and analyzing the results.

HYPOTHESES OF STUDY

Based on the above and what was presented in the introduction to the study, highlighting the impact of computer information system on the adequacy of institutional work. The hypotheses of this study are:

H1: The use of Computer Information System in enterprises contributes to the efficiency of institutions.

H2: The use of Computer Information System in the institutions contributes to improve decision making.

H3: The use of Computer Information System in the institutions contributes to reduce cost.

H4: The use of Computer Information System in the institutions contributes to reduce process time in services.

LITERATURE AND PREVIOUS STUDIES

An information system is an organized mechanism and procedure that allows collection, classification and sorting Data, processed and converted to information, to be retrieved when needed, so that can carry out work, decide or perform any function that benefits the movement of the institution through the knowledge will receive Retrieved information from the system.

The computer information system is defined as a set of procedures and administrative processes for the collection, organization, classification and treatment of information. The basic function of computer information systems is to collect, process, and transform data into information that is retrieved as needed; by obtaining data from various internal and external sources, Ensure data accuracy, Organize the data, the storage data, Perform calculations and logical on data, and Retrieval of information And transfer from one place to another by printing reports or computer screens and various magnetic storage media. (Azad and Amin, 2012)

Computer information systems are accurate because the risk of error is much lower than traditional and manual systems, due to stress in human manual work, but the computer, its performance is the same capacity and accuracy, both in the first minutes of work or in the last minutes of it, regardless of the time and duration of work and conditions. (Helfert, 2011)

Computer information systems contribute to saving and reducing effort; the human effort in traditional systems is much greater than that of computerized systems, Whether at the level of procedures for dealing with information and their various sources, processing, storing and controlling them by the documentation specialist, or at the level of retrieving information and sources and benefiting from it by researchers and other beneficiaries. (Alshubaily and Altameem, 2017)

Computer information systems accommodate huge amounts of information, as the volume of information and documents stored in traditional methods is limited, Regardless of the size of human and spatial capabilities, as compared to the large and growing potential of computer memory, electronic storage media, electronic storage and others. (Brdesee et al., 2013) Data storage is the retention of information using technology specifically developed to keep that data and have it as accessible as necessary. The information that is normally collected is stored in a database to be extracted and processed later. (Hauksson, 2007) The information retrieval options are better and wider in computerized systems than in traditional systems. The documentation procedures required for information in its various forms are much faster when using computer information system, especially for retrieving information.

Several studies and researches dealt with the subject of computer information systems and their impact on the adequacy of institutional work. The Lakhder et al study (2012) that discusses the impact of computer information systems on institutional development, and that aimed to analyze organizational change imposed by the diffusion of Computer Information System in institutional work. (Lakhder, Kamel, & AMMAR, 2012)

According to Karim (2011) many modern organizations, both medium and large, are interested in a stage of progressive investment in the new components of computer information system and their adoption. (Karim, 2011) Computer Information Systems provide information in institutions at all levels, helping to make effective and temporary decisions according to the information provided. (Westford admin, 2016)

Computer Information Systems is a system that relies on the hardware and software components of a computer to process data and retrieves information. Figure (1) According to Bejjar and Boujelbene study (2013) Computer information systems contribute to providing high-quality information, reducing errors and resolving performance problems as they occur. (Bejjar & Boujelbene, 2013)

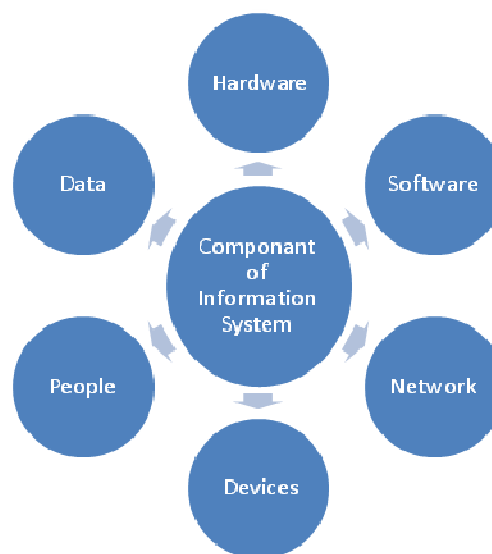


Figure 1: The Component of Computer Information System

Several studies have confirmed that computer information systems affect the performance of core competencies relative to the performance of supporting activities, particularly with regard to the components of uniqueness and the creation of value for core competencies. This is confirmed by an Elia study (2012), “which aimed to determine the impact of information systems on the performance of the core competence and supporting activities of the institution”. (Elia, 2012)

A study by Cipriano 1995 whose goal is to delimit or specify the impact of information systems on the excellent performance emphatically supported the idea that information systems are very important in excellent performance of the management systems and therefore are highly respected within the theory and practice of the quality management. (Cipriano, 1995)

According to Al-Saadi (2015) which attempted to identify and study the impact of computer information systems on the management of human resources, Computer information systems, when exploited, play an important and vital role in institutional work, Where the importance lies in the reducing the times and completion of work and accelerate transactions and the preservation and security of information, archives, documents and other tasks. (al-Saadi, 2015)

CONCLUSIONS

The computer information system is defined as a set of procedures and administrative processes that aimed to collection, organization, classification and treatment of information. The importance of computer information systems in our lives is reflected in its use in many different sectors, which invest information systems in the management of their daily operations, which affects human life and the daily system. This is because Computer information systems contribute to saving and reducing effort, and Computer information systems are accurate because the risk of error is much lower than traditional and manual systems. This means that the importance of computer information systems lies in helping organizations to increase the efficiency of operational processes, thereby reducing the pressure on the individuals in which they work, and reducing the times and completion of work and accelerate transactions and the preservation and security of information, archives, documents and other tasks.

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